

CLAIMS

1. A surgical irrigation device for use with a surgical tool, comprising:
a sleeve configured for attachment to the tool;
a conduit having a distal tip and a proximal end, the conduit mounted on the sleeve; and
a flow control mounted on the sleeve and associated with the conduit for controlling fluid flow through the conduit.
2. The device of claim 1 wherein the sleeve is formed of expandable, compliant material.
3. The device of claim 1 wherein the conduit comprises a tube formed of flexible material, and the distal tip comprises a positionable nozzle portion.
4. The device of claim 3 wherein the nozzle portion comprises at least two nozzles, each of the at least two nozzles configured to be individually adjustable to a desired position and to retain the desired position.
5. The device of claim 3 wherein the flow control comprises a clamping member.
6. The device of claim 5 wherein the clamping member is configured to enable selective clamping of the tube to control volume flow to the nozzle portion.
7. The device of claim 1, further comprising a connector at the proximal end of the conduit.

8. The device of claim 1, wherein the sleeve is formed of textured material to enhance gripping of the device.

9. A surgical irrigation device for use with a surgical tool, the device comprising:

means for holding and releasing fluid;

means for conducting fluid from the fluid holding and releasing means;

means for releasably attaching the conducting means to the tool; and

means for controlling flow of fluid through the fluid conducting means.

10. The device of claim 9 wherein the controlling means comprises means for clamping the conduit means to restrict the volume of fluid flowing through the conduit means.

11. The device of claim 9 wherein the fluid holding means comprises a compressible reservoir and means for compressing the compressible reservoir.

12. The device of claim 9 wherein the conducting means comprises a means for dispensing fluid out of the conducting means, the dispensing means configured to be selectively positionable to a desired position and to retain the desired position.

13. A surgical irrigation system for use with a surgical tool, comprising:
a sleeve sized and shaped to be slidably received onto the surgical tool;
a conduit mounted on the sleeve;
a flow control mounted on the sleeve and associated with the conduit; and
a reservoir coupled to the conduit.

14. The system of claim 13 wherein the conduit comprises a dispensing tip formed at a distal end thereof that can be positioned at a desired orientation.

15. The system of claim 14 wherein the dispensing tip is formed of malleable material.

16. The system of claim 14 wherein the dispensing tip comprises two nozzles that can be individually positioned at a desired orientation.

17. The system of claim 13 wherein the flow control comprises a clamp that squeezes the conduit to control volume flow through the conduit.

18. The system of claim 13, further comprising a connector coupled at a proximal end of the conduit to releasably connect the conduit to the reservoir.

19. The system of claim 13 wherein the reservoir comprises a compressible member.

20. The system of claim 19 wherein the compressible member comprises an elastomeric bulb urged into a compressed condition by an elastomeric member.

21. The system of claim 19 wherein the reservoir comprises a syringe.

22. The system of claim 19 wherein the reservoir comprises a collapsible bladder.

23. The system of claim 19 wherein the reservoir comprises means for compressing the reservoir.

24. The system of claim 23 wherein the collapsing means comprises a resilient band.

25. The system of claim 19 wherein the conduit is adjustably mounted on the sleeve to enable selective positioning of the conduit with respect to the sleeve.

26. The system of claim 19, wherein the sleeve is formed of textured material to enhance gripping.

27. A surgical instrument, comprising:
a surgical tool; and
a surgical irrigation device attached to the surgical tool, the surgical irrigation device comprising:
a sleeve attachable to the tool,
a conduit mounted on the sleeve, and
a flow control mounted on the sleeve and associated with the conduit.

28. The instrument of claim 27 wherein the sleeve is formed of expandable, compliant material.

29. The instrument of claim 27 wherein the conduit comprises a tube formed of flexible material, and the tube further comprises a distal tip having a positionable nozzle portion formed thereon.

30. The instrument of claim 29 wherein the nozzle portion comprises two nozzles, each nozzle individually adjustable to a desired position.

31. The instrument of claim 29 wherein the flow control comprises a clamping member.

32. The instrument of claim 31 wherein the clamping member is configured to enable selective clamping of the tube to control volume flow to the nozzle portion.

33. The instrument of claim 27, further comprising a connector at a proximal end of the conduit.

34. A surgical instrument system, comprising:
a surgical tool; and
a surgical irrigation system coupled to the tool, the surgical irrigation system comprising:
a sleeve sized and shaped to be slidably received onto the surgical tool,
a conduit mounted on the sleeve,
a flow control mounted on the sleeve and associated with the conduit, and
a reservoir coupled to the conduit.

35. The system of claim 34 wherein the conduit comprises a dispensing tip formed at a distal end thereof that can be positioned at a desired orientation.

36. The system of claim 35 wherein the dispensing tip is formed of malleable material.

37. The system of claim 35 wherein the dispensing tip comprises two nozzles that can be individually positioned at a desired orientation.

38. The system of claim 34 wherein the flow control comprises a clamp that squeezes the conduit to control volume flow through the conduit.

39. The system of claim 34, further comprising a connector coupled at a proximal end of the conduit to releasably connect the conduit to the reservoir.

40. The system of claim 34 wherein the reservoir comprises a compressible member.

41. The system of claim 40 wherein the compressible member comprises an elastomeric bulb urged into a compressed condition by an elastomeric member.

42. The system of claim 40 wherein the reservoir comprises a syringe.

43. The system of claim 40 wherein the reservoir comprises a collapsible bladder.

44. The system of claim 40 wherein the reservoir comprises means for compressing the reservoir.

45. The system of claim 44 wherein the collapsing means comprises a resilient band.

46. The system of claim 40 wherein the conduit is adjustably mounted on the sleeve to enable selective positioning of the conduit with respect to the sleeve.

47. A single-use surgical irrigation system for use with a surgical saw having a cylindrical body to provide fluid for irrigation and cooling, the system comprising:

- a sleeve formed of compliant material and sized to be slidably received over the cylindrical body on the tool and to retain its position on the cylindrical body;

- a fluid reservoir comprising a compressible container;

- a tube mounted on the sleeve, the tube having a first end configured for dispensing fluid and a second end connectible to the fluid reservoir, the first end comprising a nozzle portion that is bendable to enable select positioning of the nozzle portion for directing fluid therefrom at a desired location; and

- a fluid control mechanism mounted on the sleeve and associated with the tube for controlling the volume of fluid passing through the tube from the reservoir to the nozzle portion, the fluid control mechanism positioned on the tool to enable operation of the fluid control mechanism by one or more fingers of a user while holding the tool.

48. The system of claim 47 wherein the tube is adjustably mounted on the sleeve to enable selective positioning of the tube with respect to the sleeve to enable repositioning of the nozzle portion with respect to the tool.

49. The system of claim 47 wherein the nozzle portion comprises two nozzles, each nozzle selectively positionable.

50. The system of claim 47 wherein the fluid control mechanism comprises a clamp associated with a flexible portion of the tube and configured to squeeze the tube and control the volume of fluid flowing therethrough.

51. The system of claim 47 wherein the reservoir comprises a syringe having an elastic band attached thereto to apply pressure on a plunger in the syringe.

52. The system of claim 47 wherein the reservoir comprises an elastomeric bulb and an elastic band positioned on the elastomeric bulb to apply compressive pressure to the elastomeric bulb.

52. The system of claim 47 wherein the nozzle portion comprises a malleable wire attached to a flexible portion of the tube.

53. The system of claim 47 wherein the sleeve is formed of material to enhance gripping of the tool.